

Chapter 1: Monitor



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Chapter 1 Monitor

1.1 System Information

1.1.1 Login OLT

The default management address of the OLT is 192.168.168.1, the PC is configured as the address of the 192.168.168.X, and the network cable is connected to the MGMT port to access the OLT. The default user name and password are admin/admin.

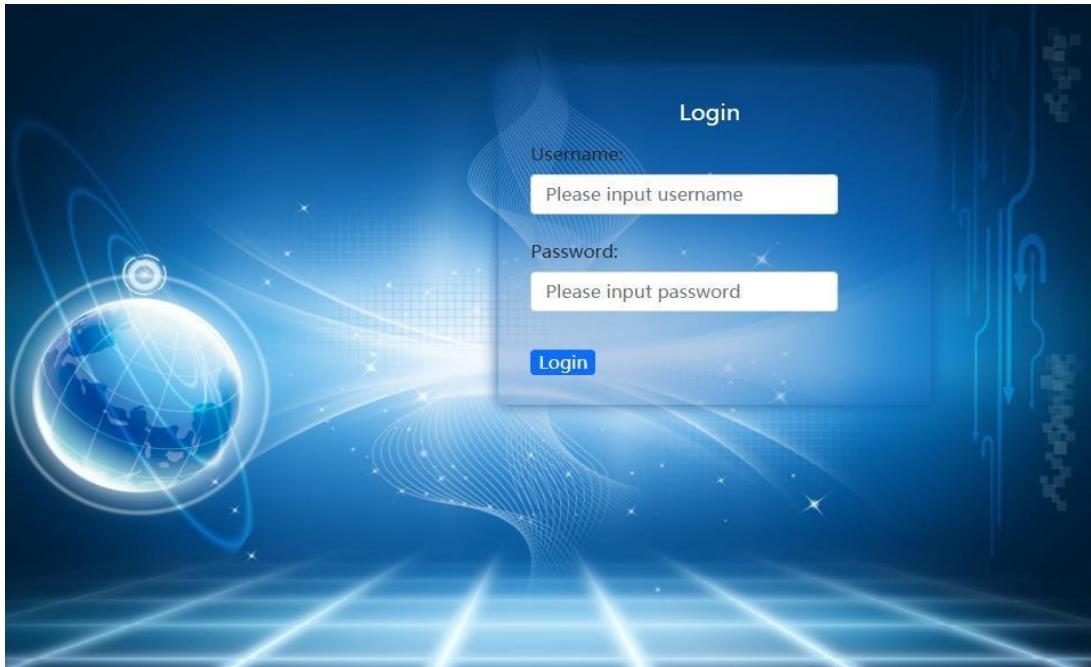


Figure 1-1

1.1.2 Device Information

1. Click Monitor-> System Information-> Device Information
2. This page displays information such as product description, hardware version, software version, and MAC address.

A screenshot of a web-based monitoring interface showing 'Device Information'. On the left, a sidebar lists 'System Information' with sub-options: 'Device Information' (selected), 'Port Information', 'ONT Information', and 'Syslog Information'. The main content area shows a physical diagram of the OLT board with ports labeled 'CONSOLE', 'USB', 'MGMT', '2 → 4 → 1', '10G/GE', 'PON', and 'PON'. Below this is a table with the following data:

Product Name	G08 GPON Product
Hardware Version	V1.0
Software Version	V1.03.B01
MAC Address	00:00:00:23:23:23
System Startup Time	0-Days 23-Hours 8-Minutes 37-Seconds
Web Page Timeout (minute)	5
System Clock	Tue 2022/07/12 10:42:58 UTC +08:00
Board Temperature	36.625(°C)
CPU Occupancy	1%
Memory Occupancy	36% (1308 MB free)

Figure 1-2

1.2 Port Information

Port information displays device port status, port traffic statistics, and uplink optical module information.

1.2.1 Basic Information

1. Click Monitor-> Port Information-> Basic Information
2. This page displays the port status, priority, speed, MTU, description and other information.

Port Status Information								
Port	Status	Link	Priority	Set Speed	Actual Speed	MTU	Port Description (0-128 chars)	
e0/0/1	enabled	down	0	auto	unknown	16356		
e0/0/2	enabled	down	0	auto	unknown	16356		
e0/0/3	enabled	down	0	auto	unknown	16356		
e0/0/4	enabled	down	0	auto	unknown	16356		
e0/1/1	enabled	down	0	full-10g	unknown	16356		
e0/1/2	enabled	down	0	full-10g	unknown	16356		
e0/1/3	enabled	down	0	full-10g	unknown	16356		
e0/1/4	enabled	down	0	full-10g	unknown	16356		
gpon0/2/1	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/2	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/3	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/4	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/5	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/6	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/7	enabled	up	0	full-2.5g	full-2.5g	16356		
gpon0/2/8	enabled	up	0	full-2.5g	full-2.5g	16356		

Figure 1-3

1.2.2 Basic Statistics

1. Click Monitor-> Port Information-> Basic Statistics
2. This page displays simple statistics about packets transmit and receive by the port.

Port Statistics Information						
Port	Receive Packets	Receive Bytes	Receive Errors	Transmit Packets	Transmit Bytes	Transmit Errors
e0/0/1	0	0	0	0	0	0
e0/0/2	0	0	0	0	0	0
e0/0/3	0	0	0	0	0	0
e0/0/4	0	0	0	0	0	0
e0/1/1	0	0	0	0	0	0
e0/1/2	0	0	0	0	0	0
e0/1/3	0	0	0	0	0	0
e0/1/4	0	0	0	0	0	0
gpon0/2/1	0	0	0	0	0	0
gpon0/2/2	0	0	0	0	0	0
gpon0/2/3	0	0	0	0	0	0
gpon0/2/4	0	0	0	0	0	0
gpon0/2/5	0	0	0	0	0	0
gpon0/2/6	0	0	0	0	0	0
gpon0/2/7	0	0	0	0	0	0
gpon0/2/8	0	0	0	0	0	0

Figure 1-4

1.2.3 Detail Statistics

1. Click Monitor->Port Information->Detail Statistics
2. This page displays detailed statistics about the received and transmit packets on the port.

The screenshot shows a web-based monitoring interface. On the left is a sidebar with navigation links: System Information, Port Information (selected), Basic Information, Basic Statistics, Detail Statistics (selected), Optical Module, ONT Information, and Syslog Information. The main content area has two sections: 'Port Selection' (showing 'e0/0/1') and 'Port Detail Statistics'. The statistics table contains the following data:

Pkts 64 Bytes	0	Pkts 65-127 Bytes	0
Pkts 128-255 Bytes	0	Pkts 256-511 Bytes	0
Pkts 512-1023 Bytes	0	Pkts 1024-1518 Bytes	0
RX Unicast Pkts	0	TX Unicast Pkts	0
RX Multicast Pkts	0	TX Multicast Pkts	0
RX Broadcast Pkts	0	TX Broadcast Pkts	0
RX Frames	0	TX Frames	0
RX Bytes	0	TX Bytes	0
RX Discarded Pkts	0	TX Discarded Pkts	0
RX Errors	0	TX Errors	0

At the bottom are 'Refresh' and 'Clear' buttons.

Figure 1-5

1.2.4 Optical Module

1. Click Monitor->Port Information->Optical Module
2. This page displays the basic information and DDM information of the optical module of the uplink port.

The screenshot shows a web-based monitoring interface. On the left is a sidebar with navigation links: System Information, Port Information (selected), Basic Information, Basic Statistics, Detail Statistics, Optical Module (selected), ONT Information, and Syslog Information. The main content area has two sections: 'Optical Module Basic Information' and 'Optical Module DDM Information'. The basic information table shows:

Port	Transceiver	Compliance	Connector	WaveLength(nm)	Transfer Distance(m)	DDM	Serial Number	Date	Vendor
gpon0/2/2	SFP/SFP+	GPON	SC	1490	20000(9um)	yes	202111080001	2021-11-08	DEMI

The DDM information table shows:

Port	Temperature(°C)	Voltage(V)	Bias Current(mA)			RX Power(dBm)			TX Power(dBm)		
			Current	High Threshold	Low Threshold	Current	High Threshold	Low Threshold	Current	High Threshold	Low Threshold
gpon0/2/2	33	3.21	8.66	70	2	-21.61	-11	-29.21	5.8	7.8	3.5

At the bottom is a 'Refresh' button.

Figure 1-6

1.3 ONT Status

1. Click Monitor->ONT information->ONT Status
2. This page displays ONT's SN, model, Up Duration, run state and member state, etc.

The screenshot shows a web-based monitoring interface for GPON ports. On the left, a sidebar menu includes 'System Information', 'Port Information', 'ONT Information' (selected), 'ONT Status' (selected), 'ONT Auto Find', 'ONT Silent', 'DBA Map', and 'Syslog Information'. The main area has two tabs: 'GPON Port Selection' (selected) and 'Online ONT Status'. In 'GPON Port Selection', a dropdown menu shows 'gpone0/2/2'. Below it, the 'Online ONT Status' tab displays a table with columns: Port, ONT, Serial Number, Model, Up Duration, Run State, Member State, and Detail. One row is shown: Port 0/2/2, ONT 3, Serial Number GPTF-00ed6885, Model N/A, Up Duration 0d0h57m, Run State Normal, Member State active, and a 'Detail' button. A 'Refresh' button is below the table. Another tab, 'Offline ONT Status', is also visible.

Figure 1-7

1.3.1 Overview

1. Click Monitor->ONT information->ONT Status->Detail->Overview
2. This page displays ONT's Description, Run state and Distance, etc.

The screenshot shows the 'Port gpone0/2/2 ONT 3 Information' detail page. The sidebar menu is identical to Figure 1-7. The main content area has a title 'Port gpone0/2/2 ONT 3 Information' and a 'Back To ONT List' button. Below is a table with tabs for Overview, Capability, Optical, Port Status, Statistics, Mac Address, and Multicast Group. The 'Overview' tab is selected, showing the following data:

Type	N/A
Description	ONT_NO_DESCRIPTION
Run State	online
Member State	active
Distance(m)	<8
Vendor ID	MONU
Serial Number	GPTF-00ed6885
Password	1234567890
LOID	123456789
Check Code	N/A
Main Software Version	V1.0.1
Secondary Software Version	N/A
Firmware Version	V5.2
Online Time	23:10:46 2000/02/26
Up Duration	0 day(s) 3 hour(s) 30 minute(s)

A 'Refresh' button is at the bottom.

Figure 1-8

1.3.2 Capability

1. Click Monitor->ONT information->ONT Status->Detail->Capability
2. This page displays ONT's capability information.

System Information		Port gpon0/2/2 ONT 3 Information		Back To ONT List				
Port Information		Overview	Capability	Optical	Port Status	Statistics	Mac Address	Multicast Group
ONT Information								
Uplink GPON Ports Number	1							
ETH/POTS/TDM/MOCA Ports Number	1/0/0/0							
CATV ANI/UNI Ports Number	0/1							
T-CONTs/GEM Ports Number	16/64							
Traffic Schedulers	16							
T-CONT Number	8							
PQs Number in T-CONT	8/8/8/8/8/8/8/8							
DBA Type	SR							
IP Configuration	Support							
Flow Control Type	GEMPORT CAR and PQ SCHEDULED							
Tx Power Cut Off	Not Support							
Refresh								

Figure 1-9

1.3.3 Optical

1. Click Monitor->ONT information->ONT Status->Detail->Optical
2. This page displays ONT's optical module power information.

System Information		Port gpon0/2/2 ONT 3 Information		Back To ONT List				
Port Information		Overview	Capability	Optical	Port Status	Statistics	Mac Address	Multicast Group
ONT Information								
Voltage(V)	3.32							
Rx Optical Power(dBm)	-18.602							
Tx Optical Power(dBm)	2.316							
Laser Bias Current(mA)	13.872							
Temperature(C)	41.52							
CATV Rx optical Power(dBm)	N/A							
CATV Output optical Power(dBmV)	N/A							
Refresh								

Figure 1-10

1.3.4 Port Status

1. Click Monitor->ONT information->ONT Status->Detail->Port Status
2. This page displays ONT's ethernet port operation state and link state, etc.

The screenshot shows the 'ONT Status' section of the interface. On the left is a sidebar with options: System Information, Port Information, ONT Information (selected), ONT Status (selected), ONT Auto Find, ONT Silent, DBA Map, and Syslog Information. The main area has tabs for Overview, Capability, Optical, Port Status (selected), Statistics, Mac Address, and Multicast Group. Under Port Status, there are sections for Ethernet Port Status and CATV Port Status. The Ethernet Port Status table shows one port (1) with Operation 'enable' and Link 'Link Down'. The CATV Port Status table shows one port with Operation status.

Figure 1-11

1.3.5 Statistics

1. Click Monitor->ONT information->ONT Status->Detail->Statistics
2. This page displays ONT's ethernet and GEM traffic statistics.

The screenshot shows the 'ONT Status' section of the interface. The sidebar and tabs are identical to Figure 1-11. The main area has sections for Traffic Statistics, Ethernet Port Statistics, and GEM Statistics. The Traffic Statistics table shows upstream and downstream traffic counts. The Ethernet Port Statistics table shows receive and transmit frame counts for port 1. The GEM Statistics table shows traffic counts for four GEM ports (unicast 2, unicast 1, broadcast, multicast).

Figure 1-12

1.3.6 MAC Address

1. Click Monitor->ONT information->ONT Status->Detail->Mac Address
2. This page displays ONT's MAC address learned by ONT.

The screenshot shows a navigation sidebar on the left with options: System Information, Port Information, ONT Information (selected), ONT Status (selected), ONT Auto Find, ONT Silent, DBA Map, and Syslog Information. The main content area is titled "Port gpon0/2/2 ONT 3 Information" with tabs for Overview, Capability, Optical, Port Status, Statistics, Mac Address, and Multicast Group (selected). Below the tabs is a table header with columns: MAC Address, VLAN, GEM Index, and GEM ID. A "Refresh" button is located at the bottom left of the main content area.

Figure 1-13

1.3.7 Multicast Group

1. Click Monitor->ONT information->ONT Status->Detail->Multicast Group
2. This page displays ONT's multicast group learned by ONT.

The screenshot shows a navigation sidebar on the left with options: System Information, Port Information, ONT Information (selected), ONT Status (selected), ONT Auto Find, ONT Silent, DBA Map, and Syslog Information. The main content area is titled "Port gpon0/2/2 ONT 3 Information" with tabs for Overview, Capability, Optical, Port Status, Statistics, Mac Address, and Multicast Group (selected). Below the tabs is a table header with columns: MAC Address, IP Address, VLAN, Client IP, Age Time, and IGMP Version. A "Refresh" button is located at the bottom left of the main content area.

Figure 1-14

1.4 ONT Optical

- 1.Click Monitor->ONT information->ONT Optical
- 2.This page displays the optical power information of the registered ONT.

The screenshot shows a navigation sidebar on the left with options: System Information, Port Information, ONT Information (selected), ONT Status, ONT Optical (selected), ONT Auto Find, ONT Silent, DBA Map, and Syslog Information. The main content area has two sections: "GPON Port Selection" with a dropdown menu showing "gpon0/2/1" and "Online ONT Optical Information". The "Online ONT Optical Information" section contains a table with columns: Port, ONT, Voltage(V), Rx Optical Power(dBm), Tx Optical Power(dBm), Laser Bias Current(mA), and Temperature(C). The table data is as follows:

Port	ONT	Voltage(V)	Rx Optical Power(dBm)	Tx Optical Power(dBm)	Laser Bias Current(mA)	Temperature(C)
0/2/1	1	3.34	-23.374	2.308	14.200	49.83
0/2/1	2	3.32	-23.566	2.232	14.150	48.50
0/2/1	3	3.30	-23.100	2.646	12.800	52.23

A "Refresh" button is located at the bottom left of the main content area.

Figure 1-15

1.5 ONT Auto Find

1. Click Monitor->ONT information->ONT Auto Find
2. This page displays information about ONTs that have failed authentication.

The screenshot shows a web-based monitoring interface. On the left is a sidebar with the following menu items:

- System Information
- Port Information
- ONT Information (selected)
- ONT Status
- ONT Auto Find (selected)
- ONT Silent
- DBA Map
- Syslog Information

The main content area has two sections:

- GPON Port Selection:** A dropdown menu showing "gpion0/2/2".
- ONT Auto Find List:** A table with the following data:

Port	Index	Serial Number	Equipment ID	Last Find Time	Find Count	Detail
0/2/2	0	GPTF-00ed6885	MONUV691	2000/02/27 03:21:11	3	Detail

A blue "Refresh" button is located below the table.

Figure 1-16

1.5.1 ONT Auto Find Detail Information

1. Click Monitor->ONT information->ONT Auto Find->Detail
2. This page displays ONT's auto find detail information by find list index.

The screenshot shows a detailed view of an ONT's auto find information. The sidebar on the left is identical to Figure 1-16. The main content area is titled "Port gpion0/2/2 Index 0 Auto Find Information" and contains the following table:

Serial Number	GPTF-00ed6885
Password	1234567890
LOID	123456789
Check Code	N/A
Vendor ID	MONU
Main Software Version	V1.0.1
Firmware Version	V5.2
Equipment ID	MONUV691
Unregistered Reason	AUTH_PARAM_NOT_MATCH
First Find Time	2000/02/27 03:20:27
Last Find Time	2000/02/27 03:22:17
Find Count	6

A blue "Refresh" button is located at the bottom of the table.

Figure 1-17

1.6 ONT Silent

1. Click Monitor->ONT information->ONT Silent
2. This page displays the ONU's configuration of failed authentication silent and offline silent.

The screenshot shows a web-based monitoring interface. On the left, a sidebar menu lists several options: System Information, Port Information, ONT Information (selected), ONT Status, ONT Auto Find, ONT Silent (selected), DBA Map, and Syslog Information. The main content area has two sections. The top section, titled 'GPON Port Selection', contains a dropdown menu set to 'gpon0/2/2'. The bottom section, titled 'ONT Silent List', displays a table with one row. The table columns are Port, Index, Serial Number, Expire Time, and Reason. The data in the table is:

Port	Index	Serial Number	Expire Time	Reason
0/2/2	0	GPTF-00ed6885	5	auth-fail

A blue 'Refresh' button is located at the bottom of the table.

Figure1-18

1.7 DBA Map

1. Click Monitor->ONT information->DBA Map
2. This page displays ONT DBA assignment information of GPON interface.

The screenshot shows a web-based monitoring interface. On the left, a sidebar menu lists several options: System Information, Port Information, ONT Information (selected), ONT Status, ONT Auto Find, ONT Silent, DBA Map (selected), and Syslog Information. The main content area has two sections. The top section, titled 'DBA Map Summary', displays summary statistics: Assign Success Total Entries (1), Assign Success Total Fixed Bandwidth (kbps) (0), and Assign Success Total Assured Bandwidth (kbps) (0). The bottom section, titled 'DBA Map List', displays a table of assignments. The table columns are Port, ONT, T-CONT Index, DBA Index, Fixed Bandwidth (kbps), Assured Bandwidth (kbps), Max Bandwidth (kbps), and Assign. The data in the table is:

Port	ONT	T-CONT Index	DBA Index	Fixed Bandwidth (kbps)	Assured Bandwidth (kbps)	Max Bandwidth (kbps)	Assign
gpon0/2/2	3	1	0	0	0	10240	success

A blue 'Refresh' button is located at the bottom of the table.

Figure 1-19

1.8 Syslog Information

1. Click Monitor->Syslog Information
2. This page displays the system log. The log records up to 10,000 entries, and it will be automatically overwritten when exceeded.

System Information	
Device Information	
Port Information	
ONT Information	
Syslog Information	

Syslog Log Information	
Refresh	
Index	Log Information
1	00:37:15: %CMDLINE-6-COMMAND: (0) admin: display dba-map interface gpon 2/2
2	00:37:02: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all
3	00:28:26: %CMDLINE-6-COMMAND: (0) admin: display version
4	00:27:20: %CMDLINE-6-COMMAND: (0) admin: display utilization interface
5	00:24:50: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all
6	00:24:06: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all
7	00:23:58: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all
8	00:23:42: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all
9	00:23:39: %CMDLINE-6-COMMAND: (0) admin: ont auto-config
10	00:23:01: %CMDLINE-6-COMMAND: (0) admin: display version
11	00:06:20: %CMDLINE-6-COMMAND: (0) admin: display dba-profile bound-info all
12	00:06:05: %CMDLINE-6-COMMAND: (0) admin: display current-config

Figure 1-20